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मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 7909 (1993): Slaughter House Equipment - Electrical
Stunning Tongs for Pigs [FAD 18: Slaughter House and Meat
Industry]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

बूचड़खाना उपस्कर — सुअरों को बेहोश करने के लिए
विद्युतचलित संदेशिका — विशिष्ट

(पहला पुनरीक्षण)

Indian Standard

SLAUGHTER HOUSE EQUIPMENT —
ELECTRICAL STUNNING TONGS FOR
PIGS — SPECIFICATION

(First Revision)

UDC 637.513.22 : 636.4

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Slaughter House and Equipment Sectional Committee had been approved by the Food and Agriculture Division Council.

This standard which was first published in 1975 has been revised based on the experience gained in the field and the practice followed in the abattoirs. In this revision, design of the tongs and range of voltage have been modified.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 ' Rules for rounding off numerical values (*revised*) '. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

SLAUGHTER HOUSE EQUIPMENT — ELECTRICAL STUNNING TONGS FOR PIGS — SPECIFICATION

(First Revision)

1 SCOPE

This standard specifies material, dimensions and other requirements for electrical stunning tongs for pigs.

2 REFERENCES

The Indian Standards listed below are necessary adjuncts to this standard:

IS No.	Title
617 : 1975	Aluminium and aluminium alloy ingots and castings for general engineering purposes (second revision)
9968 (Part 1) : 1988	Elastomer insulated cables : Part 1 For working voltages up to and including 1 100 volts.

3 MATERIAL

The stunning tongs shall be made of cast aluminium alloy or extruded aluminium alloy conforming to grade 4223 of IS 617 : 1975.

4 REQUIREMENTS

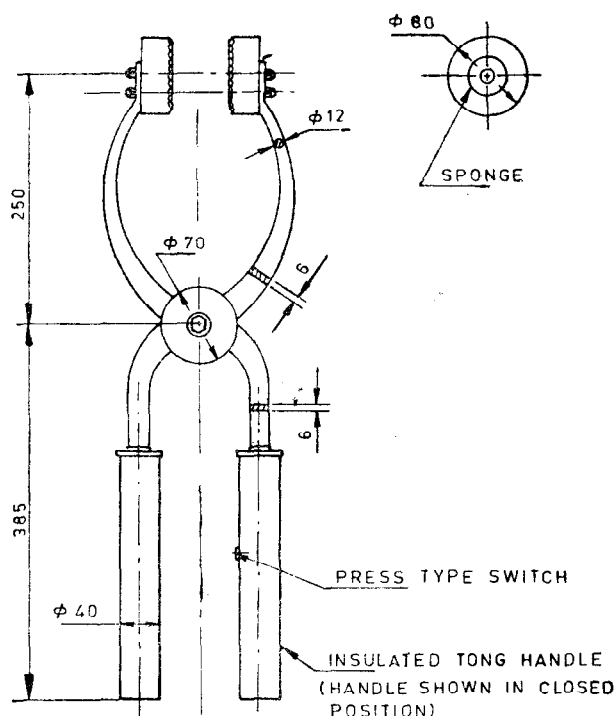
4.1 The dimensions of the electrical stunning tongs shall be as shown in Fig. 1.

4.2 Other Requirements

4.2.1 The tongs shall be capable of working in the range of 90 to 150 volts.

4.2.2 The cable connections shall be held firmly by cable glands.

4.2.3 The cable shall be of multicore flexible cord of sufficient current-carrying capacity. The cable shall conform to IS 9968 (Part 1) : 1988.



All dimensions in millimetres.

FIG. 1 TYPICAL ELECTRICAL STUNNING TONG FOR PIGS

4.2.4 Both the tongs shall be attached with the pivot on screw which shall be covered by the detachable upper and lower caps. The space between these two caps shall be suitably packed with grease.

4.2.5 The wiring and other electrical system shall be so arranged as to be shock-proof to the operator even in wet condition.

4.2.6 The tong shall be provided with insulated rubber grips. In addition, a suitable insulation shall be provided up to the pivot point as shown in the figure.

4.2.7 The electrodes shall be made of aluminium alloy, suitably serrated and provided with flexible sponge in order to provide intimate electrical contact on the animal.

4.2.8 A press-type control switch shall be provided on inner side of the right-hand sided handle and within the reach of the operator.

4.2.9 The total weight of the electrical stunning tongs shall not exceed 3 kg.

5 WORKMANSHIP AND FINISH

5.1 The tongs shall be free from pits, burrs and other visual manufacturing defects which are detrimental to its working.

5.2 The metal parts shall be properly anodized.

5.3 The tongs shall not develop any loose contact during operation.

6 MARKING

6.1 The following particulars shall be legibly marked on the tongs:

- a) Manufacturer's name, and
- b) Batch or code number.

6.2 BIS Certification Marking

Details are available with the Bureau of Indian Standards.

7 PACKING

As agreed to between the purchaser and the supplier.

8 SAMPLING

Sampling shall be done as agreed to between the purchaser and the vendor.

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